

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S150	12	trustcopy.as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/17 07:08
S151	487	((SHENG) near2 (HUANG)).INV.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/17 07:09
S152	168	((JIAN) near2 (WU)).INV.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/17 07:09
S153	651	S151 S152	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/17 07:09
S154	3	S153 and watermark.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/17 07:10
S155	5898	283/72,93,94,113.ccls. 713/176.ccls. 358/3.28.ccls. 380/54,51.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/17 07:11
S156	37	S155 and (watermark and layer).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/17 07:14
S157	3	S155 and (watermark and layer).clm. and \$2modulat\$5.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/17 07:15

EAST Search History

S15 8	18	@ad<"20000915" and (watermark\$3 embed\$4) and (phase near2 modulat\$3) and (ronchi moir?)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/17 07:15
S15 9	3216	(713/176.ccls. 358/3.28.ccls. 235/494.ccls. 283/113.ccls. 380/54.ccls. 382/100.ccls. 705/58.ccls.) and @ad<"20010316"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/12/17 07:15
S16 0	13	@ad<"20000915" and watermark\$3 and (phase adj modulat\$3) and (document)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/12/17 07:16

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Camera and method for **watermarking** film content - Patent 20060045308

For example, to apply a region of the **watermark** pattern with a grey-scale value of 124 to an **unmodulated** region of the **optical** image with a current ...

www.freepatentsonline.com/20060045308.html - 72k - Cached - Similar pages

Watermarking - Patent 20060290992

The **watermark** is provided as a modulation to the **optical** density of a public image or image portion wherein both modulated and **unmodulated** portions of the ...

www.freepatentsonline.com/20060290992.html - 63k - Cached - Similar pages

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Collision avoidance in all-**optical** wavelength-division multiplexed ...

source of crosstalk at the CSMA/CA node, an **unmodulated** laser transmits. (1533.75 nm) in continuous-wave mode. The **optical** signals are combined and ...

ieeexplore.ieee.org/iel5/50/28000/01251092.pdf - Similar pages

Sensitivity Evaluation of Baseband Carrier-Sense Circuit for ...

Further, an **unmodulated** DFB laser. transmits. (1533.75 nm) in continuous-wave (CW) mode. The **optical** signals are combined and launched with equal ...

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Method for embedding digital information in a three dimensional ...

382/100 , APPLICATIONS 380/54 , BY MODIFYING **OPTICAL** IMAGE (E.G., ... and (b) at least one intensity image of reflected **unmodulated** illumination, ...

www.patentstorm.us/patents/6823076-claims.html - 21k - Cached - Similar pages

Methods and apparatus for authentication of documents by using the ...

Watermarked plastic support Issued on: January 4, 1994 ... a reference transparency consisting of an identical, but **unmodulated**, line grating (respectively, ...

www.patentstorm.us/patents/5995638-description.html - 134k - Cached - Similar pages

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EP1463310 Eastman european software patent - A projector with ...

[0076] An additional benefit of electro-**optical** modulation at an internal image plane is the ease of customized **watermarking**. A **watermark** can be introduced ...

gauss.ffii.org/PatentView/EP1463310 - 92k - Cached - Similar pages

(WO/2003/054786) GENERATING GRAPHICAL CODES BY HALFTONING WITH ...

In general, a digital **watermark** is designed to produce an embedded signal 30 may be scanned by a conventional desktop **optical** scanner (e. g. ...

www.wipo.int/pctdb/en/wo.jsp?WO=2003%2F054786&IA=WO2003%2F054786&DISPLAY=DESC - 74k - Cached - Similar pages

System for processing data and method thereof invention

[0031] Alternatively the **watermark** is applied according to a [0074] A playback device for **optical** discs comprising an addressing means and a data ...

www.freshpatents.com/System-for-processing-data-and-method-thereof-dt20070201ptan20070028102.php?type=des... - 62k - Cached - Similar pages

Tektronix to showcase new products at NAB conference

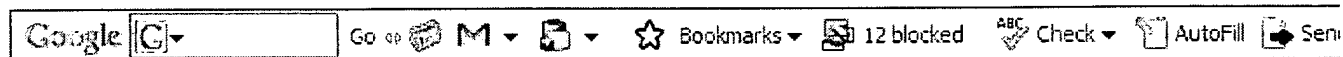
EMI/EMC Design | **Optical** Electronics and Display | Embedded Systems Warning: The images on this site are protected by digital **watermark** technology. ...

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The **watermark** is provided as a modulation to the **optical** density of a public image or image portion wherein both modulated and **unmodulated** portions of the ...
www.freepatentsonline.com/20060290992.html - 63k - Cached - Similar pages

Systems and methods for detecting music sharing - Patent 20060059560

Players do not look for the **watermark** and simply play the file without detecting other magnetic media such as tape; **optical** media such as CD-ROM disks; ...
www.freepatentsonline.com/20060059560.html - 40k - Cached - Similar pages
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Projector with enhanced security camcorder defeat - US Patent 7221759

An additional benefit of electro-**optical** modulation at an internal image plane is the ease of customized **watermarking**. A **watermark** can be introduced through ...
www.patentstorm.us/patents/7221759-description.html - 91k - Cached - Similar pages

JSTOR: Paul Gauguin's Breton "Girl by the Sea": Recovering a ...

To finish the foot, the artist then applied a pinkish-white **layer** of gouache for The present **unmodulated** appearance of the face is also the result of ...
[links.jstor.org/sici?sici=0391-9064\(1996\)17%3A33%3C175%3APGB%22BT%3E2.0.CO%3B2-J](http://links.jstor.org/sici?sici=0391-9064(1996)17%3A33%3C175%3APGB%22BT%3E2.0.CO%3B2-J) - Similar pages

[PDF] arXiv:cs/0510022v1 [cs.CR] 9 Oct 2005

File Format: PDF/Adobe Acrobat - [View as HTML](#)
again could be altered by transmitting **unmodulated**. signals. Frequency hopping seems unlikely to We omit discussion of acoustic and **optical** means, all ...
arxiv.org/pdf/cs/0510022 - Similar pages

Apparatus and method for embedding and extracting information in ...

... perception characteristic to insert modulated or **unmodulated** tones into a the message is outputted to a user, or to a higher data protocol **layer**. ...
www.palmerpatent.com/.../6683958_embedding_extracting_features_replica_modulation.html - 90k - Cached - Similar pages

Pulse or digital communications inventions 200601

The first motion estimation unit generates base motion data for a **layer**. is mixed with **unmodulated** carriers nominally at the frequency of the carrier, ...
www.freshpatents.com/Pulse-or-digital-communications-dt200601ntc375.php - 143k - Cached - Similar pages

(WO/2002/101669) AUTHENTICATION OF DOCUMENTS AND VALUABLE ARTICLES ...

or other valuable articles (such as **optical** disks, CDs, DVDs, software packages, Now, if the second **layer** consists of small pinholes (FIG. ...
www.wipo.int/pctdb/en/wo.jsp?WO=2002%2F101669&IA=WO2002%2F101669&DISPLAY=DESC - 150k - Cached - Similar pages

[PDF] 1 of 173 3/12/01 3:31 PM http://www.its.blrdoc.gov/projects ...

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shape and/or finish **optical** elements, including the endfaces of **optical** fibers and the

specification of application-layer data or application-protocol ...

www.its.bldrdoc.gov/projects/devglossary/other/t1g2k_a-l.pdf - Similar pages

[GZIP] [From billbigrig at yahoo.com Sat Sep 1 02:39:30 2007 From ...](#)

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From billbigrig at yahoo.com Sat Sep 1 02:39:30 2007 From: billbigrig at yahoo.com (bill bigrig) Date: Sat Sep 1 02:39:28 2007 Subject: [sdiy] RE: OY using ...

[dropmix.xs4all.nl/pipermail/synth-diy/2007-September.txt.gz](#) - Similar pages

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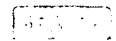
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1 [A new adaptive MAC layer protocol for broadband packet wireless networks in harsh fading and interference environments](#)



Anthony S. Acampora, Srikanth V. Krishnamurthy

June 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 3**Publisher:** IEEE PressFull text available: pdf(171.56 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** media access protocols, wireless

2 [Mobile computing: DataMan project perspective](#)



Tomasz Imielinski

December 1996 **Mobile Networks and Applications**, Volume 1 Issue 4**Publisher:** Kluwer Academic PublishersFull text available: pdf(239.53 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The objective of mobile computing is to develop system and application level software for small, battery powered terminals equipped with the wireless network connection. There is a rapidly growing interest in this field with companies spending billions of dollars developing technology and buying spectrum in the recent PCS auctions. In this paper we offer a perspective of mobile computing from the standpoint of our own research project at Rutgers University. The DataMan project (T.Imielinski ...

3 [High-speed local area networks and their performance: a survey](#)



Bandula W. Abeyesundara, Ahmed E. Kamal

June 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 2**Publisher:** ACM PressFull text available: pdf(3.83 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

At high data transmission rates, the packet transmission time of a local area network (LAN) could become comparable to or less than the medium propagation delay. The performance of many LAN schemes degrades rapidly when the packet transmission time becomes small comparative to the medium propagation delay. This paper introduces LANs and discusses the performance degradation of LANs at high speeds. It surveys recently proposed LAN schemes designed to operate at high data rates, including the ...

Keywords: access schemes, computer networks, data communication, medium access protocols, optical fiber networks

4 Polling-based media access protocols for use with smart adaptive array antennas ☐

Srikanth V. Krishnamurthy, Anthony S. Acampora, Michele Zorzi

April 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 2

Publisher: IEEE Press

Full text available:  pdf(271.34 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: antenna, arrays, media, polling, protocols

5 Single-packet radiolocation of 802.11 wireless sources, using an array of stationary antennas and high-speed RF multiplexing ☐



Danko Antolovic, Steven S. Wallace

August 2006 **Proceedings of the 2nd annual international workshop on Wireless internet WICON '06**

Publisher: ACM Press

Full text available:  pdf(347.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article describes the prototype of an 802.11b (wi-fi) wireless device that can determine the spatial direction from which every individual data packet has arrived, at a speed equal to the rate of wireless network traffic. Many problems in wireless networking stem from the fact that the users and their equipment are mobile; unlike devices attached to wired networks, their location is often unknown and difficult to determine. That makes traditional network management approaches ineffective ...

Keywords: 802.11b, SDR, adaptive radio, network management, radiolocation, wi-fi

6 Ordering subscribers on cable networks ☐



Raphael Rom

November 1984 **ACM Transactions on Computer Systems (TOCS)**, Volume 2 Issue 4

Publisher: ACM Press

Full text available:  pdf(710.05 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: distributed protocols, distributed systems, random access


7 Sensornet services: Radio interferometric geolocation ☐



Miklós Maróti, Péter Völgyesi, Sebestyén Dóra, Branislav Kusý, András Nádas, Ákos Lédeczi, György Balogh, Károly Molnár

November 2005 **Proceedings of the 3rd international conference on Embedded networked sensor systems SenSys '05**

Publisher: ACM Press

Full text available:  pdf(458.64 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a novel radio interference based sensor localization method for wireless sensor networks. The technique relies on a pair of nodes emitting radio waves simultaneously at slightly different frequencies. The carrier frequency of the composite signal is between the

two frequencies, but has a very low frequency envelope. Neighboring nodes can measure the energy of the envelope signal as the signal strength. The relative phase offset of this signal measured at two receivers is a function of ...

Keywords: localization, location-awareness, radio interferometry, ranging, sensor networks

8 Wireless mobile networks: Performance of a multiband impulse radio UWB architecture ☐



Martin Mittelbach, Rainer Moorfeld, Adolf Finger

October 2006 **Proceedings of the 3rd international conference on Mobile technology, applications & systems Mobility '06**

Publisher: ACM Press

Full text available: pdf(323.56 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper a highly flexible and scaleable multiband impulse radio UWB architecture for high data rates is described and evaluated. The investigations are mainly focused on on-off-keying modulation combined with a low-complexity non-coherent energy detection receiver. Various representative system configurations are defined and examined by simulation, studying effects of pulse generation, filtering, synchronization, demodulation and channel coding.

Keywords: multiband impulse radio, non-coherent energy detection, on-off-keying, ultra-wideband

9 Security and privacy: Robust location distinction using temporal link signatures ☐



Neal Patwari, Sneha K. Kasera

September 2007 **Proceedings of the 13th annual ACM international conference on Mobile computing and networking MobiCom '07**

Publisher: ACM Press

Full text available: pdf(438.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The ability of a receiver to determine when a transmitter has changed location is important for energy conservation in wireless sensor networks, for physical security of radio-tagged objects, and for wireless network security in detection of replication attacks. In this paper, we propose using a measured temporal link signature to uniquely identify the link between a transmitter and a receiver. When the transmitter changes location, or if an attacker at a different location assumes the identi ...

Keywords: PHY, motion detection, multipath, radio channel

10 Optical interconnection technology in the telecommunications network ☐

Davis H. Hartman

November 1986 **Proceedings of 1986 ACM Fall joint computer conference ACM '86**

Publisher: IEEE Computer Society Press

Full text available: pdf(1.85 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

11 Poster Session 1: A stacked antenna broad-band RFID front-end for UHF and microwave bands ☐



V. Pillai, H. Heinrich, K. V. S. Rao, R. Martinez

April 2004 **Proceedings of the 14th ACM Great Lakes symposium on VLSI GLSVLSI '04**

Publisher: ACM Press

Full text available: pdf(202.35 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A stacked antenna front-end for RFIDs is presented. Schottky diode based voltage doubler charge pumps are used on the front-end. The use of schottky diodes permits broadband operation for UHF (915MHz) as well as Microwave (2.45GHz). The entire chip has a low power EEPROM, digital state machine, clock recovery and data demodulation circuits; and the chip implements the ISO 18000-6B protocol for passive UHF (915MHz) operation. The chip is built on n-well, dual poly digital process with schottky di...

Keywords: RFID, UHF, cascade, dual front-end, microwave, passive, schottky, stacked

12 Computer graphic modeling of american sign language



Jeffrey Loomis, Howard Poizner, Ursula Bellugi, Alyn Blakemore, John Hollerbach

July 1983 **ACM SIGGRAPH Computer Graphics , Proceedings of the 10th annual conference on Computer graphics and interactive techniques SIGGRAPH '83**, Volume 17 Issue 3

Publisher: ACM Press

Full text available: pdf(842.33 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The essential grammatical information of American Sign Language (ASL) is conveyed through changes in the movement and spatial contouring of the hands and arms. An interactive computer graphic system is described for the analysis and modeling of sign language movement. This system consists of four components. The first component reconstructs actual movements in three dimensions and allows the user to interactively segment and transform the data for later analysis. The second component allows ...

Keywords: American sign language, Movement

13 Information leakage from optical emanations



Joe Loughry, David A. Umphress

August 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 3

Publisher: ACM Press

Full text available: pdf(382.77 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A previously unknown form of compromising emanations has been discovered. LED status indicators on data communication equipment, under certain conditions, are shown to carry a modulated optical signal that is significantly correlated with information being processed by the device. Physical access is not required; the attacker gains access to all data going through the device, including plaintext in the case of data encryption systems. Experiments show that it is possible to intercept data under ...

Keywords: COMINT, COMSEC, EMSEC, SIGINT, TEMPEST, communication, compromising emanations, covert channel, encryption, fiber optics, information displays, light emitting diode (LED)


14 Lighting Transfer Functions Using Gradient Aligned Sampling



Eric B. Lum, Kwan-Liu Ma

October 2004 **Proceedings of the conference on Visualization '04 VIS '04**

Publisher: IEEE Computer Society

Full text available:  pdf(393.11 KB) Additional Information: full citation, abstract

An important task in volume rendering is the visualization of boundaries between materials. This is typically accomplished using transfer functions that increase opacity based on a voxel's value and gradient. Lighting also plays a crucial role in illustrating surfaces. In this paper we present a multi-dimensional transfer function method for enhancing surfaces, not through the variation of opacity, but through the modification of surface shading. The technique uses a lighting transfer function t ...

Keywords: direct volume rendering, volume visualization, multi-dimensional transfer functions, shading, transfer functions

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